


Surge Arrester
T30-A90X
3-Electrode-Arrester
Ordering code: B88069X3030C253

DC spark-over voltage ^{1) 2) 3)}	72 ... 108	V
DC spark-over voltage ^{3) 5)}	72 ... 180	V
DC spark-over voltage ^{2) 4)}	72 ... 230	V
Impulse spark-over voltage		
at 1 kV/μs - for 99 % of measured values ³⁾	< 500	V
- for 50 % of measured values ³⁾	< 380	V
at 1 kV/μs - for 99 % of measured values ⁴⁾	< 700	V
- for 50 % of measured values ⁴⁾	< 600	V
Insulation resistance at 50 V _{dc} ³⁾	> 1	GΩ
Capacitance at 1 MHz ³⁾	< 1.5	pF
Service life according to EPCOS		
10 operations 8/20 μs ⁶⁾	10	kA
10 operations 8/20 μs ⁷⁾	5	kA
10 operations 50 Hz; 1 s ⁶⁾	10	A _{rms}
10 operations 50 Hz; 1 s ⁷⁾	5	A _{rms}
Values after loading		
Insulation resistance at 50 V _{dc} ^{3) 8)}	> 10	MΩ
DC spark-over voltage ^{2) 3)}	65 ... 150	V
DC spark-over voltage ^{2) 4)}	65 ... 250	V
Impulse spark-over voltage		
at 1 kV/μs - for 99 % of measured values ³⁾	< 700	V
- for 99 % of measured values ⁴⁾	< 900	V
Activation after reflow soldering ⁹⁾		
1 operation U _{RMS} = 600 V; 1 s	2	A
Weight	~ 1.2	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ Tip or ring electrode to center electrode

⁴⁾ Tip to ring electrode

⁵⁾ After 1 day storage in darkness for 80 % of tubes

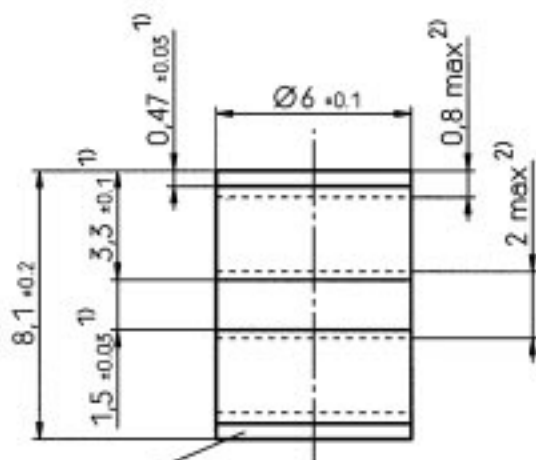
⁶⁾ Total current through center electrode, half value through tip respectively ring electrode

⁷⁾ Total current through center electrode, same value through tip respectively ring electrode

⁸⁾ For 80 % of tubes

⁹⁾ Total current from ring to tip electrode

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE 0845



Elektroden müssen frei von Farbresten sein /
electrodes must be free of paint
Werkstoff / material OF - Cu F20
Oberfläche verzinkt / surface tin-plated > 7 µm

1) Fertigungsmaß ohne Oberfläche /
manufacturing dim. w/o plating

2) elektr.leitfähige Bereiche /
conductive areas



Schichtdicken-Meßpunkt
Teilkreis Ø5 ± 0.1
measuring point of
plating thickness Ø5 ± 0.1

Oberfläche mattverzinkt, bleifrei
surface dull tin-plated, lead free
Zinnschichtdicke } (14 ± 7) µm
thickness of tin

Test :
AQL 0.65
Niv. S - 3 (einfach / single)

Not to scale

Dimensions in mm

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